# Technical Data Sheet for TEG8080 - G10SP

Metal Based Thermoelectric Generator



### **NOMINAL PERFORMANCE & FEATURES**

Working Temperature : -20 °C~230 °C
AC Resistance : 4.2 Ω ± 10% (at 25°C)

Working Humidity: 10~70%

RoHS EU Compliant

High Strength for Rugged Environment

Custom Size and Shape

## **INSTALLATION**

Recommended mounting methods: Clamp or screw with uniform pressure to a flat surface with thermal interface material. Recommended 1MPa (145 psi) with thermal grease or flexible graphite pads.

#### **OPERATION CAUTIONS**

For maximum reliability, continuous operation below 200°C (cold side and hot side) is recommended. Intermittent operation up to 230°C on the hot side of TEG is permissible.

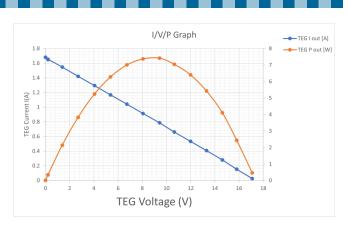
#### POWER GENRATION PERFORMACE CURVE

Laboratory Test for Delta 200°C

Open Circuit Voltage, VOC: 17V

Closed Circuit Current: 1.68A

Optimum Power: 7.4W



Delta T = 200			Cold side flow rate = 1.5L/hr				
TEG V out [V]	TEG I out [A]	R load [ohms]	TEG P out [W]	Applied Pressure [kg]	T hot [°C]	T cold [°C]	Delta T
17.0879	0.027215	627.88766	0.46504549	449.40898	223.948	24.61	199.338
9.42132	0.787324	11.966255	7.41763135	450.81902	225.967	25.582	200.385
0.003787	1.6805	0.0022535	0.00636405	451.20417	226.322	26.733	199.589



# **MECHANICAL CHARACTERISTICS**

All units are in millimeters. For customer support or general questions, please contact local office or visit our website at www.glxpcb.com

